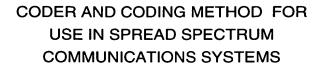
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ABSTRACT OF THE DISCLOSURE

The present invention is a coder for encoding and decoding a digital baseband signal in spread spectrum communication system such that the phase integrity of the carrier inversions is preserved. The coder comprises an encoder and a decoder. The encoder includes an exclusive "or" logic unit and a delay unit. The exclusive "or" logic unit includes a first input for receiving the baseband digital signal to be encoded. The one bit delay unit includes an input coupled to the output of the exclusive "or" logic unit. The one bit delay unit further includes an output coupled to a second input of the exclusive "or" logic unit. The undelayed output of the exclusive "or" logic unit provides the encoded digital baseband signal. The encoded digital baseband signal is utilized to modulate a spread spectrum carrier signal.